```
      FILE 'REGISTRY' ENTERED AT 15:11:05 ON 30 JUL 2004
L1         266 S (AL2O3 OR O3SC2 OR O3Y2 OR LA2O3 OR AL.O
               OR O.SC OR O.Y OR LA.O)/MF
L2         696 S (O.TA OR O.V OR NB.O OR O.TH OR O.U)/MF


      FILE 'HCAPLUS' ENTERED AT 15:11:09 ON 30 JUL 2004
L3       32464 S MOSFET OR IGFET OR (OXIDE# OR INSULAT? OR MOS OR IG OR `
               METAL(W)OXIDE)(2A)(FET OR FIELD EFFECT) OR HFET OR HEMT OR MESFET OR
               HIGH(W)ELECTRON(W)MOBILITY
L4       35062 S (MULTILAYER? OR MULTI(W)LAYER? OR COMPOSITE# OR STACKED)(3A)(GATE#
               OR OXIDE# OR INSULAT? OR DIELECTR?)
L5      491114 S INSULAT#### OR DIELECTRIC
L6     6449446 S INTERMED? OR INTERVEN? OR MIDDLE OR BETWEEN OR BELOW OR UNDER OR
               ABOVE OR OVER
L7        1460 S L3 AND (L4 OR L5(3A)L6)
L8          89 S L7 AND (L1 OR L2)
L9           1 S L7 AND L1 AND L2
L10          1 S L9 NOT US 2004004248/PN
             D MAX


L11     156959 S (MULTILAYER? OR MULTI(W)LAYER? OR LAYER? OR COMPOSITE# OR STACKED OR
               FLOATING)(3A)(GATE# OR OXIDE# OR INSULAT? OR DIELECTR?)
L12          8 S L3 AND L11 AND L1 AND L2
L13          7 S L12 NOT L10 NOT US 2004004248/PN
             D 1-7 .PATIT


      FILE 'WPIX' ENTERED AT 15:28:10 ON 30 JUL 2004
L15      72010 S (TANTALUM OR VANADIUM OR NIOBIUM OR THORIUM OR URANIUM OR TANTALATE
               OR VANADATE OR NIOBATE OR URANIC OR TANTALIC OR VANADIC OR THORIA)
L16      79917 S TA2O5 OR V2O5 OR VO OR VO2 OR V2O3 OR V2O5 OR NB2O5 OR UO2 OR UO3 OR
               O3U OR O2U OR O5V2 OR O3V2 OR O2V OR OV OR O5TA2 OR THO2 OR O2TH OR
               L15
L17     677643 S (ALUMINUM OR ALUMINIUM OR ALUMINA OR AL OR SCANDIUM OR SC OR YTTRIUM
               OR Y OR LA OR LANTHANUM OR AL2O3 OR SC2O3 OR O3SC2 OR Y2O3 OR O3Y2
               OR LA2O3 OR LANTHANA)
L18        119 S L3 AND (L11 OR L5(3A)L6) AND L16 AND L17
L19      79917 S TA2O5 OR V2O5 OR VO OR VO2 OR V2O3 OR V2O5 OR NB2O5 OR UO2 OR UO3 OR
               O3U OR O2U OR O5V2 OR O3V2 OR O2V OR OV OR O5TA2 OR THO2 OR O2TH OR
               L15
L20      16415 S L15(3A)(OXIDE# OR ACID# OR ANHYDRIC OR
               PENTOXIDE# OR TRIOXIDE# OR DIOXIDE#)
L21      79917 S (L19 OR L20)
L22      72228 S L17(3A)(OXIDE# OR ACID# OR ANHYDRIC OR PENTOXIDE# OR TRIOXIDE# OR
               DIOXIDE#)


L23     355465 S L4 OR LAYERS OR LAYERED OR LAYERING


      FILE 'WPIX' ENTERED AT 16:33:22 ON 30 JUL 2004
L24     103753 S L23(3A)L5 OR L5(3A)L6
L26         30 S L3 AND L21 AND L22 AND L24


      FILE 'HCAPLUS, WPIX' ENTERED AT 16:54:05 ON 30 JUL 2004
L27         36 DUP REM L14 L26 (1 DUPLICATE REMOVED)


      FILE 'WPIX' ENTERED AT 16:54:47 ON 30 JUL 2004
L28         29 SEA L27
             D 1-29 MAX
```

STIC-EIC 2800   Jef4-B68   Scott Hertzog   571-272-2663

```
       FILE 'INSPEC' ENTERED AT 16:59:13 ON 30 JUL 2004
L29       2248 S (TA2O5 SS OR V2O5 SS OR VO SS OR VO2 SS OR V2O3 SS
                 OR V2O5 SS OR NB2O5 SS OR UO2 SS OR UO3 SS OR O3U SS OR O2U SS
                 OR O5V2 SS OR O3V2 SS OR O2V SS OR OV SS OR O5TA2 SS OR THO2
                 SS OR O2TH SS)/CHI
L30       1506 S (TA2O5 INT OR V2O5 INT OR VO INT OR VO2 INT OR
                 V2O3 INT OR V2O5 INT OR NB2O5 INT OR UO2 INT OR UO3 INT OR O3U
                 INT OR O2U INT OR O5V2 INT OR O3V2 INT OR O2V INT OR OV INT OR
                 O5TA2 INT OR THO2 INT OR O2TH INT)/CHI
L31      18820 S (AL2O3 SS OR SC2O3 SS OR O3SC2 SS OR Y2O3 SS OR
                 O3Y2 SS OR LA2O3 SS)/CHI
L32       9197 S (AL2O3 INT OR SC2O3 INT OR O3SC2 INT OR Y2O3 INT
                 OR O3Y2 INT OR LA2O3 INT)/CHI
L33          2 S  L3 AND (L29 OR L30) AND (L31 OR L32) AND L24
L34          2 S  L33 AND PY<2003
             D 1-2 MAX


       FILE 'COMPENDEX' ENTERED AT 17:09:55 ON 30 JUL 2004
L35          0 S  L3 AND L21 AND L22 AND L24
L36         16 S  L3 AND (L21 OR L22) AND L24
L37         15 S  L36 NOT PY>2003


       FILE 'INSPEC, COMPENDEX' ENTERED AT 17:17:11 ON 30 JUL 2004
L38         16 DUP REM L34 L37 (1 DUPLICATE REMOVED)


       FILE 'COMPENDEX' ENTERED AT 17:17:21 ON 30 JUL 2004
L39         14 SEA L38
             D 1-14 ALL
```

127863

SEARCH REQUEST FORM   Scientific and Technical Information Center - EIC2800

Rev. 3/15/2004   This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 272-2511.

Date 7/29/04 Serial # 10/614,777 Priority Application Date 20020708

Your Name M Lewis _____ Examiner # _____

AU 2899 Phone 272-1838 Room 5A30

In what format would you like your results? Paper is the default. (PAPER) DISK EMAIL

If submitting more than one search, please prioritize in order of need. ————> VH

Need before 8/5

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?
Circle: USPT   DWPI   EPO Abs   JPO Abs   IBM TDB

Other: _____

What relevant art have you found so far? Please attach pertinent citations or
Information Disclosure Statements. _____

What types of references would you like? Please checkmark:

Primary Refs ✓   Nonpatent Literature ___   Other _____
Secondary Refs ✓   Foreign Patents ___   _____
Teaching Refs ___   _____

What is the topic, such as the **novelty**, motivation, utility, or other specific facets defining the
desired **focus** of this search?   Please include the concepts, synonyms, keywords, acronyms,
registry numbers, definitions, structures, strategies, and anything else that helps to describe the
topic. Please attach a copy of the abstract and pertinent claims.

Claims 1-14

Problem: See pages 1-3
Solution: "   "   3-5

Please look for the materials
& ranges that are disclosed

Staff Use Only
Searcher: Scott Hertzog
Searcher Phone: 2-4463
Searcher Location: STIC-EIC2800, JEF-4B68
Date Searcher Picked Up: 7/30/4
Date Completed: 7/30/4
Searcher Prep/Rev Time: 300
Online Time: 118

Type of Search
Structure (#) _____
Bibliographic ✓
Litigation _____
Fulltext ✓
Patent Family _____
Other _____

Vendors
STN ✓
Dialog _____
Questel/Orbit _____
Lexis-Nexis _____
WWW/Internet _____
Other _____